

Work Order ID 84057

84057

Page 1

May 2, 2012 9:28:50 AM

Item ID: D2611 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Bearing
 Start Date: 5/02/12 Start Qty: 40.00 *40* Cust Item ID:
 Required Date: 5/04/12 Req'd Qty: 40.00 *40* Customer:
 Reference:

Approvals: Process Plan: CL Date: 12/05/02 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
D2611	Rev C								
100	PURCHASING	0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>16880</u> Purchase part as per Dwg D2611 Possible supplier: McMasterP/N: 63215K34 Material release note required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.00							
Packaging	Ensure certificate of conformity is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

112-05-2

40x

SP
12-5-4

Srator

(x40)

conty
aspus

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 84057

May 2, 2012 9:28:50 AM

84057

Page 2

Item ID: D2611 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Bearing
 Start Date: 5/02/12 Start Qty: 40.00 ***40*** Cust Item ID:
 Required Date: 5/04/12 Req'd Qty: 40.00 ***40*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location	0.00							
130									
Packaging	Memo	0.00				40x			SP
Packaging									12-5-7
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							12/5/8
Quality Control									

12-5-7

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

May 2, 2012 9:28:50 AM

Page 1

Work Order ID: 84057

Parent Item: D2611

Parent Item Name: Bearing

Start Date: 5/02/12

Required Date: 5/04/12

Start Qty: 40.00

Required Qty: 40.00

Comments: IPP Rev:B99.06.23Re-formatDM
Change to SS; Change Supplier- Rev.C 07.03.14 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
63215K34 Bearing		Purchased	No				Each	0.0000		40			

SP 12-5-4. (40)

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

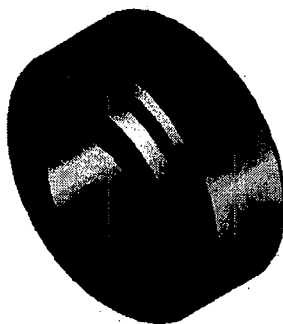
NOTE: Date & initial all entries



DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>##</i>	APPROVED <i>##</i>	DRAWING NO. D2611	REV. C SHEET 1 OF 1
DATE 06.09.20		TITLE BEARING	SCALE NTS
REV	DATE	DESCRIPTION	
A	97.07.31	NEW ISSUE	
B	01.07.04	RE-DRAWN	
C	06.09.20	CHANGE TO SS; CHANGE SUPPLIER	

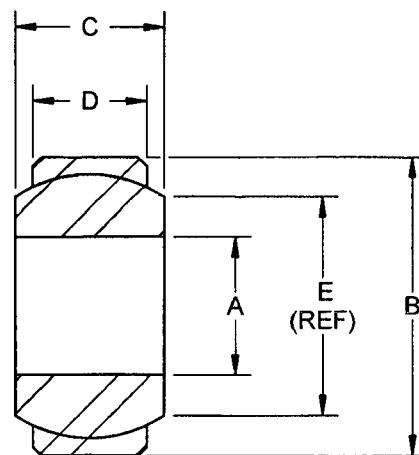
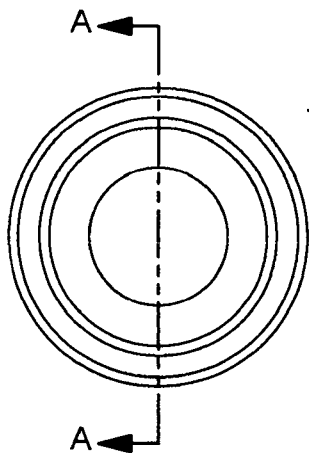
SPECIFICATION CONTROL DRAWING

CL12105102
W10.84057



RELEASED

06.11.17 *##*



SECTION A-A



A	B	C	D	E (REF)	POSSIBLE SUPPLIER
0.375	0.813	0.406	0.313	0.592	McMASTER-CARR P/N 63215K34

NOTES:

- 1) STAINLESS STEEL BALL JOINT SWIVEL BEARING
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO16880**

Purchase Order Date 5/2/2012

PO Print Date 5/2/2012

Page Number 2 of 2

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

330 995 5500

330 995 9600

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Brigitte Golden

10127-2607

Net 30

USD

Destination-Collect

5 9381t24 25 per pack S 5/4/2012 20.00 FedEx PI collect \$4.0600 \$81
Hooks

No

Deliver To: finishing

Special Inst: 20 packs

7 9776K38 Hook & Loop Strip 1" 5/4/2012 150.00 FedEx PI collect \$0.9640 \$144
f

No

Special Inst: As per DWG: D3800 Rev: B
B84060

8 9776K33 HOOK AND LOOP STRIP 5/4/2012 150.00 FedEx PI collect \$0.9640 \$144
1"

Yes

Special Inst: same as above
B84061

9 63215K34 Bearing 5/4/2012 40.00 FedEx PI collect \$17.2400 \$689
Each

Yes

Special Inst: As per DWG: D2611 Rev: C
B84057

PO Total:

\$1,177

Change Nbr: 3

Change Date: 5/2/2012

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO16880

Order Placed By
Brigitte Golden

McMaster-Carr Number
4377987-02

Page

05/02

Line	Description	Ordered	Shipped	LN
5	9381T24 Zinc-Plated Steel Open End S-Hook, 1/8" Diameter, 28# Work Load Limit, Packs of 25 Your Part Number: FINISHING	20 Packs	20	3 - 293
	Unit Price: \$4.06			
	Extended Price: \$81.20			
6	9776K38 1" W X 75' L Loop, Adhesive Back, Beige, Lengths of 75	2 Lengths	2	1 - 455
	Unit Price: \$72.32			
	Extended Price: \$144.64			
7	9776K33 1" W X 75' L Hook, Adhesive Back, Beige, Lengths of 75	2 Lengths	2	1 - 459
	Unit Price: \$72.32			
	Extended Price: \$144.64			
8	63215K34 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 3/8" ID, 13/16" OD, 13/32" Ball Thick	40 Each	30	3 - 482
	Unit Price: \$17.24			
	Extended Price: \$517.20			

Shipped separately from our Chicago warehouse on 05/02

8	63215K34 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 3/8" ID, 13/16" OD, 13/32" Ball Thick	40 Each	10
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Charges for this shipment

Merchandise Amount: \$1,004.80
Total: \$1,004.80

Sp 12-5-4



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO16880

Page 1 of 2

Order Placed By
Brigitte Golden

05/02/2012

McMaster-Carr Number
4377987-01

Line	Description	Ordered	Shipped					
8	63215K34 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 3/8" ID, 13/16" OD, 13/32" Ball Thick	40 Each	10	2 - 729 - 03	09 - 84	K34	10 EA	8
	Unit Price:	\$17.24						
	Extended Price:	\$172.40						

Shipped separately from our Cleveland warehouse on 05/02

1	1325K54 Dow Corning Molykote 55 O-Ring Lubricant, 5.3-Ounce Tube	1 Each	1					
2	4714A405 Zirconia Alumina Sanding Belt, 50 Grit, 3/4" X 20-1/2"	25 Each	25					
3	91709A104 Helical Insert Plug Tap, 10-24 Internal Thread, Plug Style	3 Each	3					
4	3014T254 Steel Eyebolt with Shoulder for Lifting, Zinc-Plated, 1/2"-13 Thread, 2400# Work Load Limit, 1-1/2" L Thread	2 Each	2					
5	9381T24 Zinc-Plated Steel Open End S-Hook, 1/8" Diameter, 28# Work Load Limit	20 Packs	20					
6	9776K38 1" W X 75' L Loop, Adhesive Back, Beige	2 Lengths	2					

Dart Aerospace Ltd

EXP
INV



1 lb
1 line

EW1BSPAX
05/02/2012
10:38/10:46
342
Cycle 23

1140364242568



Brigitte Golden

From: McMaster-Carr <cle.sales@mcmaster.com>
Sent: Wednesday, May 02, 2012 11:52 AM
To: bgolden@dartaero.com
Subject: Confirmation for your Order PO16880
Attachments: Confirmation for your Order PO16880.PDF



330-995-5500
330-995-9600 (fax)
cle.sales@mcmaster.com

Order Confirmation

Ship to
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO16880

Order Date
5/2/12

Ordered By
Brigitte Golden

McMaster-Carr Number
4377987

Line	Description	Ordered	Ships	Unit Price	Total
1	1325K54 Dow Corning Molykote 55 O-Ring Lubricant, 5.3-Ounce Tube Your Part Number: GARY	1 each	today	24.97 each	24.97
2	4714A405 Zirconia Alumina Sanding Belt, 50 Grit, 3/4" X 20-1/2" Your Part Number: ERIC L	25 each	today	1.22 each	30.50
3	91709A104 Helical Insert Plug Tap, 10-24 Internal Thread, Plug Style Your Part Number: JEAN-LUC	3 each	today	16.65 each	49.95
4	3014T254 Steel Eyebolt with Shoulder for Lifting, Zinc-Plated, 1/2"-13 Thread, 2400# Work Load Limit, 1-1/2" L Thread Your Part Number: JEAN-LUC	2 each	today	5.85 each	11.70
5	9381T24 Zinc-Plated Steel Open End S-Hook, 1/8" Diameter, 28# Work Load Limit, packs of 25 Your Part Number: FINISHING	20 packs	today	4.06 per pack	81.20
6	9776K38 1" W X 75' L Loop, Adhesive Back, Beige, lengths of 75	2 lengths	today	72.32 per length	144.64
7	9776K33 1" W X 75' L Hook, Adhesive Back, Beige, lengths of 75	2 lengths	today	72.32 per length	144.64
8	63215K34 Stainless Steel Ball Joint Swivel Bearing, PTFE Lined, 3/8" ID, 13/16" OD, 13/32" Ball Thick	40 each	today (10 from our Chicago warehouse)	17.24 each	689.60

Merchandise \$1,177

Applicable shipping charges and GST will be added

Purchase Order Requisition

Monday, April 30, 2012 7:23:24 PM

Page 1 of 1

Purchase Requisition Nbr: PR100225
Submitted By: Jean-Luc Menard
Date Submitted: 4/30/2012 7:14:26 PM
Current Status: Pending

71500-20

Notes:

Line Nbr 1

Material Requested: #91709A104 10-24 HELICOIL TAP

Reason:

Quantity Required: 3 Est. Unit Cost: \$16.65 Ext. Cost: \$49.9

Suggested Vendor Info:

Vendor ID: VII-MCM001 Vendor Name: McMaster-Carr Supply Co,
Address: P.O. Box 7690
Phone Number: 330 995 5500 Email:
Vendor P/N: Vendor Desc:
Mfg P/N: Mfg Desc:

X

Size	Pkg. Qty.	Each	
		Partial Pkg.	Full Pkg.
Dow Corning Molykote 55 (-35° to +350° F)			
5.3-oz. Tube	12	1325K54 \$24.97	\$29.66

MSDS Catalog Page Bookmark

Dow Corning Molykote
55 O-Ring Lubricant
5.3-Ounce Tube

Each

In stock			
5-lb. Container	1	1325K58	\$92.65

71400-40

Easy

1325K54 X1 24.97\$

Dow Corning Molykote Assembly Lubricants

Choose these lubricants to reduce torque on metal parts such as threaded fasteners, during assembly work. They also reduce friction while breaking in new or rebuilt equipment such as gears and bearings. These products are compliant under all state VOC rules in effect on October 1, 2010.

Dow Corning Molykote G-N—Mineral oil and molybdenum disulfide are blended with white solid lubricants. Color is dark gray. Aerosol has a female stem.

Dow Corning Molykote D—Mineral oil is blended with white solid lubricants. Color is white, which provides a clean appearance where thin-film applications are not possible.

Size	Pkg. Qty.	Each	
		Partial Pkg.	Full Pkg.
Dow Corning Molykote G-N (0° to +750° F)			
2.6-oz. Tube	12	1204K33	\$9.95 \$9.03
11-oz. Aerosol	12	1204K13	27.66 25.11
1-lb. Container	6	1204K36	43.12 39.14
Dow Corning Molykote D (-15° to +480° F)			
1-lb. Container	6	4326T37	44.51 40.40

Antiseize Lubricants

Made of copper, graphite and other additives, pick these lubricants for your general-purpose antiseize applications. These products are compliant under all state VOC rules in effect on October 1, 2010.

Dow Corning Molykote 1000—Resists corrosion and won't dry out.

Size	Color	Pkg. Qty.	Each	
			Partial Pkg.	Full Pkg.
Dow Corning Molykote 1000 (-20° to +1202° F)				
1-lb. Brush-Top Can	Brown	10	1352K81 \$25.41	\$20.06

Metal-Free Antiseize Lubricants

Free of metal particles, these lubricants prevent galling in stainless steel and other sensitive alloys. These products are compliant under all state VOC rules in effect on October 1, 2010.

Dow Corning Molykote P37—Consists of molybdenum disulfide, zirconium, graphite, and other solids in an ultra-pure synthetic oil.

Size	Color	Pkg. Qty.	Each	
			Partial Pkg.	Full Pkg.
Dow Corning Molykote P37 (-22° to +2550° F)				
1-lb. Brush-Top Can	Black	4	1362K81 \$65.08	\$69.08

Lithium-Thickened Grease

These multipurpose lubricants offer good heat and moisture resistance. These products are compliant under all state VOC rules in effect on October 1, 2010.

Dow Corning Molykote BR-2 Plus—Contain molybdenum disulfide to withstand extreme pressures. These black greases are suitable for moderate- to high-speed ball and roller bearings, conveyors, and shop equipment.

Dow Corning Molykote 44 with Silicone—Use these off-white silicone-based synthetic greases for antifriction bearings; plastic and rubber parts under light loads; and moderate- to high-speed applications.

Size	NLGI No.	Pkg. Qty.	Each	
			Partial Pkg.	Full Pkg.
Dow Corning Molykote BR-2 Plus (-20° to +265° F)				
Cartridge for Grease Gun (14.1 oz.)	2	10	10905K42 \$9.42	\$9.55
35-lb. Container	2	1	10905K43	199.29
Dow Corning Molykote 44 with Silicone (-40° to +400° F)				
5.3-oz. Tube	2	12	1262K23 25.78	23.40
Cartridge for Grease Gun (14.1 oz.)	2	10	1262K25 65.37	59.34
35-lb. Container	2	1	1262K27	421.23

High-Performance Lithium-Thickened Grease

Additives improve performance in severe operating conditions. These products are compliant under all state VOC rules in effect on October 1, 2010.

Dow Corning Molykote G-4700—This black synthetic grease contains moly (molybdenum disulfide) for extreme-pressure applications.

Sanding Belts

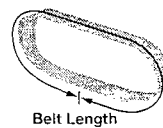
For information about sanding abrasives, see page 2651.

Ceramic Aluminum Oxide Sanding Belts

Advanced ceramic aluminum oxide (also known as seeded gel abrasive) allows these belts to remove material at a consistent cut rate because the grit particles continuously produce new sharp cutting edges. A special coating reduces clogging and results in less burn. Use on carbon steels, aerospace alloys, nickel alloys, aluminum, cast iron, forgings, and some stainless steels. The belts have a strong cloth backing. Use wet and dry.

Belt Size, Wd. x Lg.	Pkg. Qty.	50 Grit Each ♦	60 Grit Each ♦	80 Grit Each ♦	120 Grit Each ♦
3/8" x 13"	25	46475A112 \$3.16	46475A113 \$3.12	46475A114 \$2.99	46475A115 \$2.97
1/2" x 12"	25	46475A117 2.38	46475A116 2.27	46475A115 2.17	46475A114 2.28
1/2" x 18"	25	46475A123 2.62	46475A124 2.49	46475A125 2.39	46475A126 2.38
1/2" x 24"	25	46475A137 2.62	46475A136 2.70	46475A135 2.49	46475A134 2.49
1/2" x 42"	25	46475A157 2.90	46475A156 2.82	46475A155 2.72	46475A154 2.68
3/4" x 20 1/2"	25	46475A177 4.34	46475A176 4.18	46475A175 4.04	46475A174 3.95
1" x 30"	25	46475A187 5.09	46475A186 5.11	46475A185 4.83	46475A184 4.57
1" x 42"	25	46475A117 5.34	46475A118 5.22	46475A119 4.98	46475A121 4.87
1 1/8" x 21"	10	46475A123 9.93	46475A124 9.52	46475A125 8.80	46475A126 8.51
2" x 48"	10	46475A128 7.62	46475A129 7.40	46475A131 6.92	46475A132 6.69
3" x 21"	10	46475A128 7.62	46475A129 7.40	46475A131 6.92	46475A132 6.69
3 1/2" x 15 1/2"	10	46475A128 7.62	46475A129 7.40	46475A131 6.92	46475A132 6.69
4" x 24"	10	46475A612 13.36	46475A613 12.98	46475A614 12.16	46475A615 11.84
4" x 36"	10	46475A617 16.42	46475A618 15.86	46475A619 14.75	46475A621 14.32
6" x 48"	10	46475A623 29.16	46475A624 28.05	46475A625 25.92	46475A626 25.07

♦ Prices are 15% lower when you buy in full-package quantities.



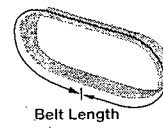
Belt Length

Premium Ceramic Aluminum Oxide Sanding Belts

With the most advanced ceramic aluminum oxide abrasive (also known as seeded gel abrasive), these belts last longer, cut faster, and cut cooler than standard ceramic aluminum oxide belts. A special coating improves performance on tough materials, such as stainless steel and Inconel. Belts have a strong cloth backing and can be used wet and dry.

Belt Size, Wd. x Lg.	Pkg. Qty.	36 Grit Each ♦	40 Grit Each ♦	50 Grit Each ♦	60 Grit Each ♦	80 Grit Each ♦
1/2" x 12"	50	4168A11 \$4.32	4168A12 \$3.84	4168A13 \$3.77	4168A14 \$3.74	4168A15 \$3.57
1/2" x 18"	50	4168A21 4.61	4168A22 5.18	4168A23 4.04	4168A24 3.96	4168A25 3.79
1/2" x 24"	50	4168A31 4.95	4168A32 4.35	4168A33 4.29	4168A34 4.22	4168A35 4.04
3/4" x 18"	50	4168A41 5.09	4168A42 4.46	4168A43 4.37	4168A44 4.31	4168A45 4.11
3/4" x 20 1/2"	50	4168A51 5.30	4168A52 4.66	4168A53 4.57	4168A54 4.46	4168A55 4.27
1" x 30"	50	4168A61 7.95	4168A62 6.91	4168A63 6.73	4168A64 6.61	4168A65 6.27
2" x 132"	50	4168A71 31.63	4168A72 26.68	4168A73 25.27	4168A74 23.97	4168A75 21.77
3" x 132"	50	4168A81 46.67	4168A82 39.39	4168A83 37.17	4168A84 35.31	4168A85 32.13

♦ Prices are 15% lower when you buy in full-package quantities.



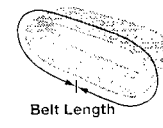
Belt Length

Long-Life Aluminum Oxide and Ceramic Blend Sanding Belts

The mix of aluminum oxide and ceramic aluminum oxide gives these belts long life and a consistent cut rate. A special coating reduces clogging and heat buildup. Use on wood, and for medium to heavy material removal on carbon steels, aerospace alloys, nickel alloys, aluminum, cast iron, forgings, and some stainless steels. Belts have a strong cloth backing. Color is purple.

Belt Size, Wd. x Lg.	Pkg. Qty.	50 Grit Each ♦	60 Grit Each ♦	80 Grit Each ♦	100 Grit Each ♦	120 Grit Each ♦	150 Grit Each ♦
3" x 18"	5	8260A56 \$3.64	8260A55 \$3.52	8260A54 \$3.41	8260A53 \$3.32	8260A52 \$3.32	8260A51 \$3.32
3" x 21"	5	8260A63 3.90	8260A62 3.78	8260A61 3.65	8260A59 3.54	8260A58 3.54	8260A57 3.54
3" x 24"	5	8260A69 4.16	8260A68 4.03	8260A67 3.90	8260A66 3.78	8260A65 3.78	8260A64 3.78
4" x 24"	5	8260A78 6.93	8260A75 6.71	8260A74 6.49	8260A73 6.31	8260A72 6.31	8260A71 6.31

♦ Prices are 15% lower when you buy in full-package quantities.



Belt Length

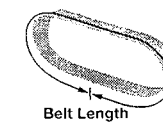
Zirconia Alumina Sanding Belts

Zirconia alumina abrasive grains are sharper than aluminum oxide, allowing for more aggressive material removal. Ideal for heavy material removal on metal and wood. The zirconia alumina abrasive continuously produces new sharp cutting points, resulting in longer life. Belts have a strong polyester cloth backing. Use wet and dry.

Also Available: Other belt sizes and grits. Please ask for 4714A999 and specify belt size and grit.

Belt Size, Wd. x Lg.	Pkg. Qty.	24 Grit Each ♦	36 Grit Each ♦	40 Grit Each ♦	50 Grit Each ♦	60 Grit Each ♦	80 Grit Each ♦	120 Grit Each ♦
3/8" x 13"	25	4714A371 \$0.93	4714A372 \$0.91	4714A373 \$0.88	4714A374 \$0.84	4714A375 \$0.82	4714A376 \$0.82	4714A377 \$0.77
1/2" x 18"	25	4714A378 1.20	4714A379 1.16	4714A381 1.10	4714A382 1.06	4714A383 1.01	4714A384 .99	4714A385 .94
1/2" x 24"	25	4714A386 1.34	4714A387 1.27	4714A388 1.20	4714A389 1.16	4714A391 1.10	4714A392 1.07	4714A393 1.01
3/4" x 18"	25	4714A394 1.58	4714A395 1.51	4714A396 1.43	4714A397 1.37	4714A398 1.30	4714A399 1.27	4714A401 1.22
3/4" x 20 1/2"	25	4714A402 1.65	4714A403 1.59	4714A404 1.48	4714A405 1.43	4714A406 1.36	4714A407 1.32	4714A408 1.26
1" x 30"	25	4714A409 2.56	4714A411 2.43	4714A412 2.23	4714A413 2.13	4714A414 2.00	4714A415 1.93	4714A416 1.84
1" x 42"	25	4714A416 5.28	4714A415 4.98	4714A414 3.35	4714A413 3.37	4714A412 3.14	4714A411 2.63	4714A410 2.10
1 1/2" x 60"	10	4714A429 7.94	4714A428 4.09	4714A427 7.20	4714A419 3.74	4714A418 3.57	4714A417 3.44	4714A416 3.93
2" x 36"	10	4714A417 5.20	4714A418 4.84	4714A419 4.40	4714A421 4.23	4714A422 3.83	4714A423 3.70	4714A424 3.53
2" x 42"	10	4714A271 8.88	4714A261 8.18	4714A251 7.48	4714A231 7.21	4714A221 6.63	4714A211 6.02	4714A453 3.76
2" x 48"	10	4714A26 8.26	4714A25 4.65	4714A24 4.46	4714A23 4.05	4714A22 3.89	4714A21 3.53	4714A454 4.04
2" x 60"	10	4714A249 10.03	4714A248 9.10	4714A247 4.72	4714A246 7.85	4714A245 4.14	4714A244 3.73	4714A455 4.64
2" x 72"	10	4714A36 11.19	4714A35 7.36	4714A34 6.93	4714A33 6.37	4714A32 6.06	4714A31 5.51	4714A456 5.20
2 1/2" x 48"	10	4714A425 7.40	4714A426 6.80	4714A427 6.07	4714A428 5.77	4714A429 5.23	4714A431 4.90	4714A432 4.70
2 1/2" x 60"	10	4714A56 12.22	4714A55 6.75	4714A54 6.40	4714A53 5.86	4714A52 5.59	4714A51 5.09	4714A457 5.40
3" x 21"	10	4714A549 8.24	4714A548 7.73	4714A547 3.10	4714A546 6.97	4714A545 3.50	4714A544 2.55	4714A458 3.37
3" x 24"	10	4714A66 7.29	4714A65 3.65	4714A64 3.37	4714A63 3.10	4714A62 3.75	4714A61 3.44	4714A459 3.66
3" x 79"	10	4714A272 20.97	4714A262 18.90	4714A252 17.10	4714A232 16.21	4714A222 14.92	4714A212 13.52	4714A461 7.47
3 1/2" x 15 1/2"	10	4714A273 9.07	4714A263 8.59	4714A253 7.95	4714A233 7.73	4714A223 4.81	4714A213 4.28	4714A462 3.37
4" x 24"	10	4714A69 10.71	4714A68 10.05	4714A67 5.35	4714A59 5.00	4714A58 6.11	4714A57 5.68	4714A463 4.60
4" x 36"	10	4714A76 13.61	4714A75 12.46	4714A74 11.45	4714A73 6.13	4714A72 5.87	4714A71 5.39	4714A464 5.60
4" x 48"	10	4714A274 19.35	4714A264 17.67	4714A254 16.13	4714A234 15.39	4714A224 14.26	4714A214 13.00	4714A465 6.73
4" x 54"	10	4714A89 18.38	4714A88 9.04	4714A87 15.23	4714A79 10.38	4714A78 7.54	4714A77 6.87	4714A466 7.30
4" x 59"	10	4714A275 22.34	4714A265 20.35	4714A255 18.56	4714A235 17.64	4714A225 16.31	4714A215 14.80	4714A467 7.80
4" x 60"	10	4714A276 22.76	4714A266 20.64	4714A256 18.74	4714A236 17.89	4714A226 16.47	4714A216 15.00	4714A468 7.86
6" x 48"	5	4714A86 25.20	4714A85 17.12	4714A84 15.59	4714A83 14.89	4714A82 13.77	4714A81 12.56	4714A469 10.84
6" x 60"	5	4714A949 29.53	4714A948 26.76	4714A947 24.36	4714A946 23.28	4714A945 21.37	4714A944 19.42	4714A471 12.40
10" x 70 1/2"	5	4714A96 55.61	4714A95 48.80	4714A94 44.38	4714A93 42.20	4714A92 39.91	4714A91 35.81	4714A472 23.43

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Belt Length

McMASTER-CARR.

2665

4714A905
1.43\$
x25

Purchase Order Requisition

Monday, April 30, 2012 7:23:24 PM

Page 2 of

Line Nbr 4

Material Requested: #3014T254 BOLT

Reason:

Quantity Required: 2 Est. Unit Cost: \$5.85 Ext. Cost: \$11.70

Suggested Vendor Info:

Vendor ID: VU-MCM001

Vendor Name: McMaster-Carr Supply Co.

Address: P.O. Box 7690

Phone Number: 330 995 5500

Email:

Vendor P/N:

Vendor Desc:

Mfg P/N:

Mfg Desc:

7/5cc - 30

Total Cost: \$61.65

<u>PRIMER FILLER</u>	<u>7704</u>	<u>1</u>		<u>Bertrand</u>	<u>143.38</u>
<u>ACTIVATOR/REDUCER</u>	<u>7775</u>	<u>1</u>		<u>Bertrand</u>	<u>51.31</u>
<u>Gravel Guard Black</u>	<u>AW4715</u>	<u>4</u>	<u>12</u>	<u>Bertrand</u>	<u>9.045</u>
<u>3M green masking tape 1/2"</u>	<u>MMM26346</u>	<u>6</u>	<u>12</u>	<u>Bertrand</u>	<u>3.178</u>
<u>3M green masking tape 2"</u>	<u>MMM26340</u>	<u>6</u>	<u>12</u>	<u>Bertrand</u>	<u>9.59</u>
<u>CLEAR IMRON 2.1</u>	<u>DUPHGC-1333</u>	<u>1</u>	<u>2</u>	<u>Bertrand</u>	<u>96.6</u>
<u>ACTIVATOR IMRON 2.1 GALLON</u>	<u>DUPFG-1333-USGL</u>	<u>1</u>	<u>2</u>	<u>Bertrand</u>	<u>245.7</u>
<u>THINNER IMRON 2.1</u>	<u>DUPT1021-USGL</u>	<u>1</u>	<u>2</u>	<u>Bertrand</u>	<u>39.13</u>
<u>ACCELARATOR IMRON 2.1</u>	<u>DUPVG-805-USPT</u>	<u>1</u>	<u>2</u>	<u>Bertrand</u>	<u>47.39</u>
<u>S HOOKS</u>	<u>9381T24 25PER PK</u>		<u>20</u>	<u>MCMaster</u>	<u>3.87</u>
<u>PUSH IN ROUND PLUG BLACK</u>	<u>9688K122 100 PER PK</u>		<u>4</u>	<u>Mc Master</u>	<u>6.26</u>

71400-40

X 20 PK